

What is claimed is;

1. A surface light source device of side light type applied to auxiliary lighting in a liquid crystal display including a liquid crystal display panel, comprising:

a guide plate; and

a primary light source to supply primary light to an incidence end face provided by a minor face of the guide plate, said guide plate having major faces to provide a back face and an illumination output face, wherein

said illumination output face is provided with no light scattering property and supplies light toward a front face of said liquid crystal display panel;

said back face provides a light control face provided with emission promoting property which helps light propagating within the guide plate to be escaped from said illumination output face.

2. A surface light source device of side light type in accordance with claim 1, wherein said light control face comprises a great number of fine regions to promote emission.

3. A surface light source device of side light type in accordance with claim 2, wherein said fine regions are arranged with irregularity.

4. A surface light source device of side light type in accordance with claim 2, wherein said fine regions are roughened partial regions in said back face.

5. A surface light source device of side light type in accordance with claim 3, wherein said fine regions are roughened partial regions in said back face.

6. A surface light source device of side light type in accordance with any one of claims 2, 3, 4 or 5, wherein said fine regions have such dimensions respectively as to make the fine regions almost invisible.

7. A surface light source device of side light type in accordance with any one of claims 2, 3, 4 or 5, wherein at least a part of said back face is provided with emission promoting property which tends to be stronger according to distance from said incidence end face.

8. A surface light source device of side light type in accordance with claim 6, wherein at least a part of said back face is provided with emission promoting property which tends to be stronger according to distance from said incidence end face.

9. A liquid crystal display comprising:
a liquid crystal display panel; and
a surface light source device of side light type for auxiliary lighting, wherein
said surface light source device of side light type comprises a guide plate and a primary light source to supply primary light to an incidence end face provided by a minor face of the guide plate and said guide plate having major faces to provide a back face and an illumination output face; wherein
said illumination output face is provided with no light scattering property and supplies light toward a front face of said liquid crystal display panel; and,
said back face provides a light control face provided with emission promoting property which helps light propagating within the guide plate to be escaped from said illumination output face.

10. A liquid crystal display in accordance with claim 9, wherein said light control face comprises a great number of fine regions to promote emission.

11. A liquid crystal display in accordance with claim 10, wherein said fine regions are arranged with irregularity.

12. A liquid crystal display in accordance with claim 10, wherein said fine regions are roughened partial regions in said back face.

13. A liquid crystal display in accordance with claim 11, wherein said fine regions are roughened partial regions in said back face.

14. A liquid crystal display in accordance with any one of claims 10, 11 or 12, wherein said fine regions have such dimensions respectively as to make the fine regions almost invisible.

15. A liquid crystal display in accordance with any one of claims 9, 10, 11, 12 or 13, wherein at least a part of said back face is provided with emission promoting property which tends to be stronger according to distance from said incidence end face.
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16. A liquid crystal display in accordance with claim 14, wherein said back face is provided with emission promoting property which tends to be stronger according to distance from said incidence end face.

17. A liquid crystal display comprising:
a liquid crystal layer;
a reflection plate disposed at a back side of said liquid crystal layer;
a first polarization plate interposed between said liquid crystal layer and said reflection plate;
a second polarization plate disposed at a front side of said liquid crystal layer; and,
a surface light source device of side light type for auxiliary lighting which comprises a guide plate and a primary light source to supply primary light to an incidence end face provided by a minor face of the guide plate, said guide plate having major faces to provide a back face and an illumination output face; wherein

said illumination output face is provided with no light scattering property;

said back face provides a light control face provided with emission promoting property which helps light propagating within the guide plate to be escaped from said illumination output face;

said guide plate being interposed between said liquid crystal layer and the second polarization plate so that said illumination output face is directed to said liquid crystal layer.

18. A liquid crystal display comprising:

a liquid crystal layer;

a reflection plate disposed at a back side of said liquid crystal layer;

a first polarization plate interposed between said liquid crystal layer and said reflection plate;

a second polarization plate disposed at a front side of said liquid crystal layer; and,

a surface light source device of side light type for auxiliary lighting which comprises a guide plate and a primary light source to supply primary light to an incidence end face provided by a minor face of the guide plate, said guide plate having major faces to provide a back face and an illumination output face; wherein

said illumination output face is provided with no light scattering property;

said back face provides a light control face provided with emission promoting property which helps light propagating within the guide plate to be escaped from said illumination output face;

said guide plate being interposed between said liquid crystal layer and the first polarization plate so that said back face is directed to said liquid crystal layer.

19. A liquid crystal display in accordance with claim 17, wherein said light control face is provided with a great number of fine regions to promote emission.

20. A liquid crystal display in accordance with claim 18, wherein said light

control face is provided with a great number of fine regions to promote emission.

21. A liquid crystal display in accordance with claim 19, wherein said fine regions are arranged with irregularity.

22. A liquid crystal display in accordance with claim 20, wherein said fine regions are arranged with irregularity.

23. A liquid crystal display in accordance with claim 19, wherein said fine regions are roughened partial regions in said back face.

24. A liquid crystal display in accordance with claim 20, wherein said fine regions are roughened partial regions in said back face.

25. A liquid crystal display in accordance with claim 21, wherein said fine regions are roughened partial regions in said back face.

26. A liquid crystal display in accordance with claim 22, wherein said fine regions are roughened partial regions in said back face.

27. A liquid crystal display in accordance with any one of claims 19, 20, 21, 22, 23, 24 or 25, wherein said fine regions have such dimensions respectively as to make the fine regions almost invisible.

28. A liquid crystal display in accordance with any one of claims 19, 20, 21, 22, 23, 24, 25 or 26, wherein at least a part of said back face or said illumination output face is provided with emission promoting property which tends to be stronger according to distance from said incidence end face.

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29. A liquid crystal display in accordance with claims 27, wherein at least a part of said back face or said illumination output face is provided with emission

promoting property which tends to be stronger according to distance from said incidence end face.